

## the HAMATEUR

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|   |   |
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| 31/91....WA9RWO...Larry Kaja.....547-1911   | Ozaukee..WA9BMA...Ed Bach.....284-2664/Metro 242-3420 |
| 93/33....WB9BSO...Bruce Herrick....964-6536 | Racine...W9HI....Stu Stewart.....539-2680             |
| QCWA....W9VQD...Travis Baird....352-9642    | 22/82....WA9JMA...Larry O'Hara....Whitewater          |

### WA9 Just Mouthing Off

I am appalled at the apparent lack of direction the F.C.C. is taking concerning the Amateur ranks. Their solution to dwindling operating funds is deregulation. It seems to have gotten its start last July when technicians were grandfathered from conditional to permanent status. They were given novice privileges and along with the novices, input power of 250 watts; so as (I believe) to allow the Commission the opportunity of eliminating the administrative duties of processing the written examinations. The next step was the abolishment of licensing fees, opening the door for the inconsiderate Amateur who applied for secondary calls in every call district, throwing a monkey wrench into the processing machinery. This led to the FCC's announcement of the elimination of all secondary, special, and club call signs except for the extra class 1X2 calls. This seemed to be the first move that stepped on many toes...only time will tell how many toes. And now according to the May 6, HR report, the eight people assigned to processing Amateur applications can handle about 8,000 requests a month. Last year the rate rose to 12,000 and at the beginning of this year it had climbed to 25,000 a month. Gettysburg is currently using 13 of the people assigned to CB on amateur application, but that must end June 11 when the situation will become critical. That's why drastic solutions such as ending the Novice program, which by itself takes more than half the processing effort, have to be considered—Before we have been completely deregulated and licensing becomes as readily available as the 11 meter phenomenon along with their operating techniques, I suggest we get off our backsides and contact those individuals and groups capable of reregulating our subsistence on the airways. Time and space do not permit me to go into more depth on the subject, but I think you get the picture. As mentioned in last month's column, ordering equipment in bulk from manufacturers can result in a nice financial savings. In keeping with this idea, I would like to share with you another bargain: Antennas, all kinds, sizes and shapes, manufactured by Finco, which can be had at a substantial savings. For further details, contact Gregg Lengling, WD9DHI, at (414) 444-7232.

From time to time I have been approached for extra copies of both current and past issues of the HAMATEUR. These are available at no cost as long as the supply holds out and providing arrangements to pickup same can be made.

I have saved the most important (at least for me) for last. I am in dire need of typists and/or the use of a high quality typewriter such as the IBM Selectric carbon ribbon ball typewriter, plus other interested individuals to help in the creativity and productivity of this newsletter. I am also looking for a specialist—a person or persons to approach potential commercial advertisers for our paper. This individual should have Amateur and advertising knowledge and be able to assist the commercial advertiser in laying out his ad. This along with a desire to be a part of a growing entity is what we are looking for. I know it's a tall order to fill; but I feel this person is in our reading audience.

73's Larry McCalvy, WA9JMO

## CLUB News

3940 KHz

OZAUKEE RADIO CLUB, INC.

37/97

June Meeting: Wednesday, June 8, 1977, at Cedarburg CD Center, 7:30 PM SHARP ! The program will feature Sherm Carr W9NGT, Assistant SEC for Southeastern Wisconsin and Director of Emergency Government, Washington County, who will speak on Identifying and Reporting Severe Local Storms. Reports from the various Field Day Committees will be given all guaranteeing 1,000 contacts on each band from 160 M through 1296. Organizational efforts are underway to furnish communications for the Blue Knights MC rally in the Northempart of the county on May 21, 1977, beginning at noon. Those interested contact Terry WA9AWO or Jeff WA9USA. Communications for the Vince Lombardi Memorial Open on June 24th and 25th will also be furnished by the club. Contact Ted W9NHE if you are interested in helping out on either or both days. Herb WA9UVK stands ready to run a Novice Class over the summer. There was no interest in Novice classes this spring. Field Day will be set up at Lazy Days Campground again this year. Let's see a good turnout of dedicated and tireless operators. Catch the Sunday net, 3940 KHz, 1300 local, for late breaking news.

Repeater Report: Split site is a reality. On April 8th Ralph WA9UDZ, Terry WA9AWO, Jeff WA9USA and Barry WB9SFK set up the receive unit on top of the Grafton State Bank between Grafton and Cedarburg. Several days of monitoring both receive signals by Ralph WA9UDZ resulted in the conclusion that the Grafton State Bank site produced receive signals superior to that at the repeater site, so the remote receiver was put into the system. Some degradation of receive signals has recently been noted. This should be remedied by a preamp already on hand. Ron WB9QHE did a fine job on installing the 450 MHz link transmitter in a rack panel. The two meter receiver and the 450 MHz link transmitter were tested and tuned to perfection by Russ WB9PAS. The split site will enable the home brew duplexer to be taken out of the line for reworking, and also permit higher power on the transmit side. The Sinclair antenna is about to be installed, and then it is on to autopatch. On the afternoon of May 11th one of the transistors in the power supply went west. This resulted in some down time for a bench repair.

### LATE NEWS FROM OZAUKEE

Mike WA9SMC offered an explanation as to why the Club was not invited to his wedding. He said that he had invited several local chapters of the Outlaw Motorcycle Club to the shindig, and was afraid that the presence of Radio Club members would embarrass the other guests. Ron W2HCB/9 announced that the FCC has decided to forgive and forget and give him back his old call of W9BCK. Faus WA9GDA took an unexpectedly quick and violent trip down the basement stairs leading to his shack. His head is OK, but the concrete at the bottom of the stairs is badly cracked. Bob WA9KBB is not too anxious to work Field Day with Hal WB0HAI until he has a chance to see what kind of antenna Hal turns up with this year. Previous experience has made it clear to him that operating under one of these creations can be genuinely hazardous to life and limb.

73 Ed WA9BMA

146.25 IN

M.I.C.O.R.S., INC.

146.85 OUT

### MILWAUKEE COUNTY REPEATER SOCIETY

NEXT MEETING SCHEDULED FOR SEPTEMBER As a reminder to all WR9ABS members, there are no scheduled meetings held during the months of June, July or August. Watch future newsletters to advise you where the September meeting will be held in regards to date, time and location. A highlight of the April meeting was a very interesting and informative discussion on using solar energy. Our thanks to Sam Sansone, WB9LAB, for his presentation.

"FISH-FEST" DRAWS NEAR A joint effort of the 25/85 club and 31/91 club our first "Fish-fest" is being planned for Saturday, July 16, 1977, to be centered around the Milwaukee Marina on the lake front. The two-fold event will feature a fishing charter from 7:00 A.M. to 12:00 noon. A charge of \$25.00 per person will include all necessary fishing equipment and related supplies. Interested persons should contact Jim Wierzba, WB9OJE, no later than June 15, 1977, to arrange for the necessary payment or for any additional information. Jim's phone number is (414) 282-4497.

The second event scheduled for the day, starting at 12:00 noon and lasting until ??? will be a FREE fish boil. It is being planned that WR9ABS (25/85) will be used as a "talk-in" frequency to direct people to the exact location on the lake front.

Once again, the fish boil is being coordinated by the 25/85 and the 31/91 clubs but is open to ALL licensed hams and their friends at NO CHARGE.

WATT'S UP? Besides the price of everything these days, the power output of WR9ABS has been increased from the 35 watts it had been running, to approximately 80 watts with the addition of the clubs T.P.L. amplifier. Once again, our thanks to Brian, K9AQF, Dave, W9CGU, and Paul, W9KHO, for all of the time they have devoted to our repeater.

AUTOPATCH PROTOCOL With the redesigned autopatch having been on the air for several months now, it's no wonder that more and more members are making use of this privilege, considering how well it works. To be expected, the more calls that do go through, the more wrong numbers that will get dialed. Members should remember that if they have to move their portable radio or car to "key" the system, they are probably too noisy to reliably use the autopatch. If in doubt, ask for a signal report or better yet, wait until you are closer to the system if possible. Nothing looks worse than trying to use or demonstrate the autopatch and then not have the system work as we thought it would.

Bill, WB9EFP

Attention

Attention

Attention

You say you can't make it to the hamfests but you have some gear you want to sell. Call Larry WA9JMA for a small fee and percentage I will take your gear to at least 2 Hamfests for the small fee of

#### Item Valaue

|                    |                         |
|--------------------|-------------------------|
| \$10.00 to \$24.99 | \$1.00 plus 12% if sold |
| \$25.00 to \$49.99 | \$1.50 plus 12% if sold |
| \$50.00 and up     | \$2.00 plus 12% if sold |

All items must have fair price and BOXED to keep from being damadaged while transporting I will pick up items in Milwaukee twice a week and after two hamfests we will make one attempt to deliver your items back to your home if not sold. If you are not home a charge of \$1.00 will be put on your item for another delivery to the Milwaukee area or you can pick up your items yourself and save the \$1.00 redelivering charge.

Not Responsable For Items Dammaged Or Stolen

NEXT MEETING: Sometime in September...watch for details in the Hamateur

PRIME TIMES FOR THE MOBILES There are two periods of time during the day which are primarily reserved for mobiles on the 31/91 repeater. In the morning the times are between 7:00 and 8:00 A.M. The afternoon hours are between 4:00 and 5:30 P.M. We ask that during this time base stations leave the repeater open to the mobiles driving to and from work and transmit only if they have been called by a mobile or have a reason for contacting a mobile station. The mobiles are also requested to keep their transmissions as short as possible to allow other stations the opportunity to participate.

BUMPER STICKERS NOW AVAILABLE Bumper stickers and window stickers are now available free of charge by sending a self-addressed stamped business-size envelope to: Bob Draeger Sr., N69 W23806 Sari Ct. Sussex, WI 53089. Bob is the owner of KMK Industries and has voluntarily made up the stickers. They read, "Monitoring Ham Radio." Thank you for your services, Bob!

AMPLIFIER BACK ON-LINE We've had a problem keeping the 31/91 amplifier tuned. The problem appears to be vibrations which disturb the final tuning. A modification was made to tighten the locking screw after the final adjustment is made and this will hopefully cure the problem. "Key-down" time on the repeater is still between 11 and 12 hours per 24-hour period.

FISHFEST THIS SUMMER A combined 31/91 and 25/85 "fishfest" is being planned for Saturday, July 16. This event will promise a fun-filled and exciting afternoon. Look for further details in the Milwaukee County Repeater Society column.

NEED YOUR COMMENTS As many of you know, the May 5 meeting notice of the Milwaukee Repeater Club asked for comments and questions from 31/91 members as to what they liked or disliked about the repeater and its operation. I'd like to re-emphasize that your comments are always welcome and greatly encouraged. This is a privilege you have as members and a duty we have as your elected club officers. Let's start our telephones ringing! We want to hear from you!

73's Larry Kaja, WA9RWO, President, MRC

M-R-A-C

MILWAUKEE RADIO AMATEURS' CLUB

M-R-A-C

The next meeting of the Milwaukee Radio Amateurs' Club will be June 23, 1977, 7:30 P.M., at the Wauwatosa Savings and Loan Building, 7500 W. State Street (use the State Street entrance).

This meeting date will feature the installation of new officers and directors elected at the May meeting. A general discussion of synthesizers (as used in the GLB400 - 2 meter unit) will follow.

This is the final meeting of the current club season and meetings will resume starting September 22, 1977.

A novice/general code and theory class has been organized and any one interested is asked to contact me at 461-8272. This class will be held on eight consecutive Wednesdays at the Wauwatosa East High School, 7500 W. Milwaukee (N. 76th & Milwaukee-Vliet) starting June 22, 1977. Classes will run from 7:00 P.M. to 9:00 P.M. There is no charge for the classes.

73's Al, W9MDG

93-33

SOUTH EASTERN WISCONSIN AMATEUR RADIO SOCIETY

93-33

Our next meeting date is Wednesday, June 1, 7:30 P.M. at the Waukesha City Hall, downtown Waukesha. We will discuss picnic ideas and repeater related matter. Sue, WB9POW, and OM Steve, WA9WYF, added a new addition to their household—a baby boy. The baby thinks daytime is between 11:00 P.M. and 7:00 A.M. I guess Steve will have to get a 3rd shift job.

Dan, WB9DCX, called the Waukesha County Sheriff Department on the autopatch to report a tipsy driver west-bound on I-94. Within five minutes the sheriff had the car pulled over off the roadway on Highway 83.

Thanks to Dan and Sheriff's Department for making the highways a little bit safer.

Jack, WB9RKF, got himself a new Kenwood 7400 rig. He tells us he enjoys operating it so much he is not taking time to do his yard work around the QTH. I wonder if he got the grass cut yet?

WANT TO JOIN THE 93/33 REPEATER? Membership dues for the remaining part of the year is \$8.75 based on \$1.25 per month. Remit check to S.E.W.A.R.S. at P.O. Box 605, Waukesha, WI 53186.

73's Lee, WB9TPD

6-MIC

SIX METER INTEREST CLUB

6-MIC

The June meeting will be held at the QTH of Marsh Baker, WB9FZU, in Belgium. Marsh has recently relocated and is now the proud owner of an 807 factory. So the suds should be flowing along with a good time. Hopefully some 6 MIC business can be conducted. The day, date and time can be had by tuning in the MAN net at 9:00 P.M. on six meters or from any member.

April is the month when 6 MIC decides on its new leadership. The deed is done! Unanimously chosen for Prexy and Veep, respectively, Art, WA9UXXL, and Marsh, WB9FZU. Re-elected to secretary-treasurer, Jim, WB9RSK. Activities Chairman for '77 will be Bob, WB9OPD. As always we look forward to a year of progress.

June 11-12 is ARRL UHF contest time and 6 MIC's WB9WWP plans to be in the thick of it all. At this time we plan a KW on six meter SSB and CW...For two meters, 20 watts FM and possibly some power for SSB and CW. Anyone care to donate gear for 220 and up? Keep August 21 an open date. The reason? The fifth annual 6 MIC picnic. The place? Wirth Park in Brookfield. More details forthcoming...Watch this column.

Okay you guys! Crank up all that six meter gear. E-skip is almost upon us. Last year was super good. I predict a repeat! May 1 and 2 produced very good Auroras; WI, W2, W3, W8, W0 and VE1's.

Flash...meeting date is June 19 at 1:30 P.M...a Sunday.

73's Bob, WB9OPD



Our next meeting will be Monday, June 6, 7:30 P.M. at the American Red Cross building on Taylor Road in Racine. Field Day location, Transmitter classes and refreshments will be the topics discussed.

Our president, WA9HOH, welcomes all our new members. Membership dues are \$3.00 per year. Join now and take an active interest in a growing Amateur Radio Club.

Our repeater is capable of handling emergency traffic as Joel, K9MLD, found out when his distress call was answered by a night owl and the local police were summoned within minutes.

Speaking of K9MLD...he mentioned that the repeater was in need of some Rohn 25 tower sections. Can anyone help? Remember, our repeater is for everyone's use; and anyone calling BREAK BREAK is expected to have emergency traffic which takes priority on the frequency. If you have comments, simply insert your call between transmissions. In my travels I have heard many systems not using this procedure nor did they immediately recognize the breaking stations. They sure sounded unfriendly, uncourteous and useless to me.

I've heard nothing but good reports on the systems in our area from many users of them. Let's keep a good name for the Wisconsin repeaters by practicing what we preach.

We regret to report that WB9AGT will be transferred to Pittsburgh. We all wish Don the best of luck with his move and promotion. Thanks, Don, for all your efforts with the club, repeater, and the Kenosha Breakfast.

Let's all keep an ear out for Vasco, CT10Y, after he returns to Portugal. Why not set up some schedules with him before he departs.

Congratulations to WA9HXM for upgrading.

Is N9FC a Bootlegger?

W9KZZ was heard on two meter FM.

Congratulations to W9HR on 160 countries DXCC. Nice job, Emmet!

Hopefully W9OQY will show his old Field Day movies on a meeting night in the near future. Sure will be nice to see the old gang in action.

GOOD NEWS....I now have the constructional information on the CCD Antenna (controlled current distribution). Members can see me at the next meeting for more details on it. A full technical analysis is to be presented in a future issue of QST. Should be quite an antenna for W9UDU's field day. Should help to keep us No. 1.

73's Stu, W9HI

#### THE WISCONSIN CHAPTER

Q.C.W.A.

QUARTER CENTURY WIRELESS ASSOCIATION, INC.

Q.C.W.A.

Spring Meeting: Saturday, June 4, 11:00 A.M. at Smith's Fish Shanty, Port Washington

Our thanks to the Miller-Brewing Company for their hospitality and to Tom Gettelman for his arranging for our get-together on April 15 at the Miller. About 80 QCWA members and wives had a very pleasant evening. Stephen Bellgraph, W9OQY, was a guest and is now our newest member. We bid you welcome, Stephen...Our fourth member from the Racine area.

We are sorry to report that Dick Ranson, W9PH, fell from a ladder while helping his wife and is now in Columbia Hospital. I'm sure he would welcome your expressions of Good Cheer.

It was good to see Butch, W9EWC, getting around the Dayton Hamvention. He seems to have bought a new Ehrhorn Linear to beat the pile-ups.

Your correspondent became a Grandpa for the first time while enroute to the Dayton affair. Andrew Kenfield Barnes shows some musical talent already which suggests that he could learn the code.

Last evening, George Ruger, W9DVD, and I completed a mailing inviting all members to the spring meeting at Smith Brothers Fish Shanty in Port Washington, Saturday, June 4, 1977...Registration starting at 11:00 A.M...Beer on tap and soda, too...Buffet luncheon at 12:30 P.M., \$5.00 per person. Our last spring meeting at Smith Brothers was a winner! See you there?

73's Travis, W9VQD

07-67

MILWAUKEE COUNTY AMATEUR RADIO EMERGENCY SERVICE

.07-67

MEETING: Tuesday, June 7, 1977, 7:30 PM at the Red Cross Building, 26th and Wisconsin Ave.

DEPUTY EC APPOINTED: The Wisconsin Section Communication Manager of the ARRL has appointed John Leekley, WB9SMM, as Deputy EC for the Milwaukee County ARES. This new post was created so that, as the next EC, the Deputy EC would have the advantage of the experience that can be gained by working with his predecessor before taking over total leadership responsibility. The Deputy EC assumes second-in-command responsibilities and full authority in the absence of the EC. John, WB9SMM, has been very active during the past years; he has participated in almost all of our operations, has been Net Control Operator during many of our exercises and actual emergencies, and has served as legal council for our corporation, AREC, Inc. His professional background, plus his knowledge and experience with our corporation, makes him the perfect choice for the job. I sincerely hope that you will give John the same excellent support and cooperation that you have given to me, as John becomes Deputy EC, and later when he takes over as EC for Milwaukee County.

Bob, WB9NNJ  
EC, Milwaukee Co.

Our next meeting date is Thursday, June 23, 7:30 P.M. at the Channel 4 TV Studios on E. Capitol Drive. Congratulations to Art, WB9TXE, for passing his Amateur Extra exam and to his XYL Betty on her Novice test. She is now the proud owner of WD9DLR and can be heard on the low bands chasing that rare DX. Congratulations are in order for Jack, WA9NQW, who wiped out his car but came out of it with only a bruised knee. Hope the radio still works.

Mark, WB9LSS, one of 22/88's smartest members, had a three-page story in the May issue of 73. Nice story, Mark! Hope you write many more.

Our president Bob, W900W, is the proud owner of a new truck camper. He took off on a vacation after the purchase so he and the wife could try it out on a shake-down cruise in the land of Dixie.

It has come to my attention that 22/82 is now the second largest repeater in the Milwaukee area with 78 paid up members and more signing up every month. Our congratulations to all the officers and members who made this possible. The 31/91 system is the largest with the 93/33 machine running a close third.

Anyone wishing to join may contact Tom Zillmer, WB9GAD, at 648 E. Wilson Street, Oconomowoc, WI 53066.

73's Larry, WA9JMA

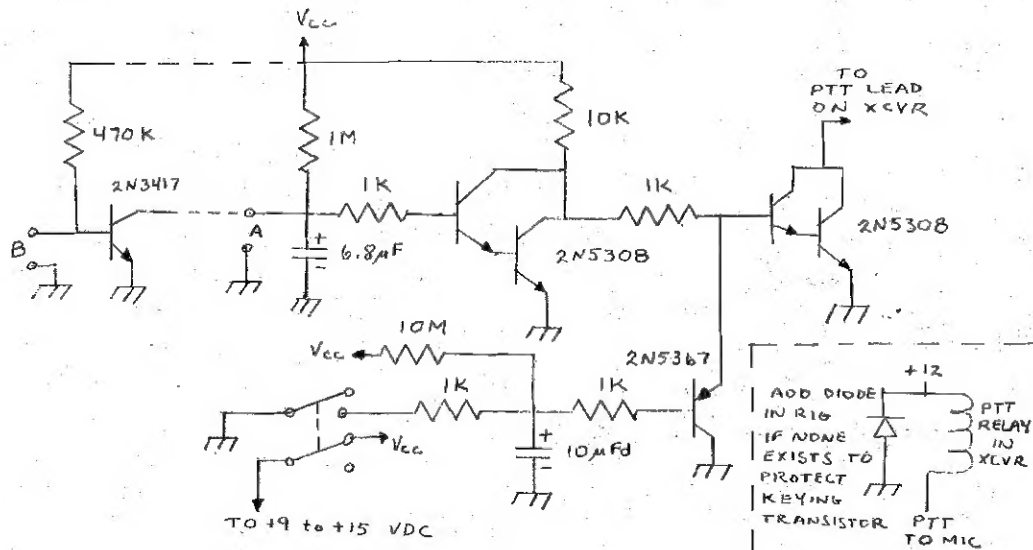
## Technical Topics

### TOUCH TONE DELAY

by  
Ron, K9WTF

Drawing: WA9VNJ

On a Western Electric pad the Red and White wires are the normally open or normally closed contacts. Check with an Ohm-meter. Some pads have a 500 ohm resistor in parallel with contacts which must be removed. See Nov. 1974 "73" for audio connections.



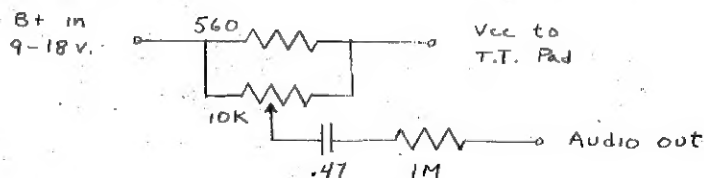
## TOUCHTONE DELAY CIRCUIT

I have had several inquiries about the touchtone delay circuit mentioned by Dave K9PAK in the Hamateur, so here is the circuit for any of you who desire to use it. The circuit as shown will provide you with push to talk when depressing any key of the touchtone pad, and will hold the transmitter on for approximately one second after releasing the key with component values shown. The one second delay has proven to be about the right time delay among several of us using the circuit. The circuit also provides for NO or NC on the pad.

If TT pad has NO contacts, connect at point A and do not install the 470K resistor and 2N3417. If TT pad has NC contacts, add the 470K and 2N3417 and connect to point B. Be sure to use a DPDT switch wired as shown to prevent transmitter keyups at powerups of the delay circuit. One installation encountered RF feedback problems for latch up. Problem is overcome by adding .01 from A or B input (whichever is used) and at the PTT point on the 2N5308. The PC board does not have lands provided for their caps, but it is easy to add. PC boards are available from WB9BSO, Bruce. Contact Bruce or myself.

The PC board also provides for the deviation Pot and audio coupling caps from the pad. The one meg resistor was also added after board design. I cut the run to the audio output terminal and added the resistor on the foil side of the board. Schematic of deviation control and VCC to pad as follows. (For high impedance microphones)

73's Ron, K9WTF



Pad deviation control

# WISCONSIN REPEATER ACTIVITY

BY JOHN LA BLONDE W9FZC

Many readers of the HAMATEUR know that because of my work for the State of Wisconsin, my travels throughout the state are rather extensive. And of course these travels do give me the unique opportunity of working through many of the 2 meter repeaters, not only in Wisconsin, but also in the border states of Illinois, Minnesota and the Upper Peninsula of Michigan. Since most of the readers live in the greater Milwaukee area, I will not have too much information on the Milwaukee 2 meter systems as most of you know more about them than I do.

While travelling in south central Wisconsin, the 2 meter ham will find active repeaters in Sullivan on 01/61, Beloit on 07/67 and Rockford, Illinois, on 01/61. In the Madison area you will find a great deal of activity on the MARA system on 16/76 and on the Baraboo system on 28/88. The Central Wisconsin Repeater Association, operators of the Baraboo system, also have another repeater operating in Madison on 147.96/36 which is located on the Hill Farms State Office Building on Madison's west side. This is a fairly new repeater and has a few problems at the present time, but the bugs are being ironed out and it should be in good shape in not too many weeks.

While travelling in the Platteville area, the 22/82 system is available with limited range. Platteville is in southwestern Wisconsin, for those who may not know. Travelling up the Mississippi River northward from Platteville, you will come into range of two repeaters in the LaCrosse area, one on 16/76 and the other on 37/97. The latter one is located just across the river from LaCrosse in LaCrescent, Minnesota.

As you travel north from LaCrosse, you will be able to access the machine at Hudson on 147.93/33. Present coverage of the Hudson repeater is not known at this time, but I will try to keep you up-to-date in a future article. Going east from Hudson, you will come into the range of the Stout State University repeater at Menomonie on 01/61 and further to the east you will start hearing the Eau Claire machine on 31/91. The Eau Claire repeater gives good coverage down Interstate 94 almost to Black River Falls, eastward to a point about halfway between Chippewa Falls and Wausau and northward to Ladysmith, Cameron and with a little hill-topping, to Rice Lake.

If you are planning a trip northwestward from Eau Claire, you can expect pretty thin 2 meter operation after you leave the Cameron-Rice Lake section until you get within 30 to 35 miles of Superior. Of course, you can always try raising someone on 94 simplex and occasionally you will. Approaching Superior you can start monitoring for the 34/94 machine and the 22/82 repeaters in Duluth, Minnesota, as well as 16/76 which is on in Superior.

If your travels include plans to use Highway 51 from Madison north to the Wisconsin-Michigan border, the Baraboo system on 28/88 will keep you company at least to Plainfield and in many cases, all the way to the Stevens Point by-pass. North of Plainfield, you will also be within the range of the 22/82 system on Rib Mountain near Wausau. The Wausau repeater has good range up to Tomahawk on the north, Abbotsford on the west and Shawano on the east. There is also another Wausau machine on 04/64 but the range is not quite as good as the 82 machine. However, at last report, the 04/64 has an open autopatch on it. Stevens Point also has a repeater which I have not worked as yet, but it may be in working order now on 07/67. Travelling in the Tomahawk-Rhineland area will give you access to the newest repeater at Rhineland on 34/94. I received late information this morning (April 24) on the Quarter Century Wireless net, that a couple of repeaters are planned for the Bessemer, Michigan, area with a 16/76 system due for operation during the month of June. Presently, if you travel east from the Ironwood, Michigan/Hurley, Wisconsin area on U.S. Highway 2, you will be able to work the Iron Mountain, Michigan, repeater operating on 25/85. One regular operator on that system is a former Milwaukee ham, W9QFL, George Toppe, who many Milwaukee hams will remember. He is known as "The Potato Farmer" up there. Give him a call when you're in the area.

at a glance ...



Here is a group of several of the MRAC members who hosted WLEDI (then ARRL communication manager) on a visit to Milwaukee. Pictured L to R with their present or latest call: W9IZQ, W6YPM, W9ANA\*, W9DVD, W5TGU, W9GPI\*, W1BDL, K9AA, W9RH\*, W9SYT. Photo W9VD\* (\*Silent Keys) "1939"

the HAMATEUR 6



Pictured on this 1938 MRAC Field Day site is George Ruger, W9DVD, and Al Krones, (then W9VWG and W9UIT). Photo W9VD

STOP IN at the NEW QTH of WB9FZU  
(Marsh & Lina Baker)



## OUR PLACE



725 Main St. - Belgium, WI.  
Closed Sunday

Enjoy a little QSO and have a FREE drink on us\*

Charbroiled Sandwiches

Friday & Saturday SPECIAL...  
FISH & BROASTED CHICKEN

\*Present this ad for a Free drink  
(Sorry...one free drink per customer)

The Hamateur has secured commercial advertising. It hopefully will serve a dual purpose - To help off-set the cost of this newsletter and to provide viable alternatives for your amateur needs. Our advertisers are as important to us as we are to them. Your patronage to our sponsors is needed and appreciated.

Larry McCalvy  
WA9JMO  
Editor

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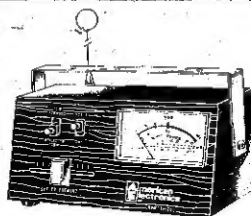
- \* 25 WATTS OUTPUT
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- \* LIFETIME CRYSTAL EXCHANGE PROGRAM "ASK ABOUT IT"
- \* COMMERCIAL QUALITY
- \* LET OUR LAND MOBILE CAPABILITIES AS THE STANDARD DISTRIBUTOR FOR WISCONSIN AND NORTHERN ILLINOIS PROVIDE YOU WITH DIRECT FACTORY SUPPORT AND PROFESSIONAL SERVICE
- \* 146A IN STOCK ALSO.

General  
Precision  
Electronics Inc.

207 Rhine Street — P. O. Box 216 — Watertown, Wisconsin 53094 — (414) 261-8148

the HAMATEUR 7

### KEN FORBORD ELECTRONICS



SWR/PWR/FS Meters  
for hf & vhf.....\$17.95

VHF BASE & MOBILE ANTENNAS

5/8-wave, 3 db gain, with  
trunk mount, cable & connector.\$18.95

1/4-wave, magnetic mount,  
with cable & connector.....\$13.00

Ringo Ranger base antenna.....\$28.00

Hy-Gain Model 341 beam,  
8-element, 14.5 db gain.....\$37.00

Self-contained, self-sensing ALARM SYSTEM  
for cars, boats & trucks.....\$28.50

Scanner TMR type crystals for 2 mtrs & PSB...\$4.50

SPECIAL...This ad worth \$2.00 towards the  
purchase of the above items \$13.00 or over.

MARINE SALES & SERVICE...CB EQUIPMENT

### KEN FORBORD ELECTRONICS

KEN FORBORD - K9BKJ  
6912 W. LAYTON AVE.  
GREENFIELD, WIS. 53220

PHONE 262-1244

## Horizon "2" mtr.

Standard  
Communications



Standard  
Communications



August 21.....6-MIC Picnic  
 Fish-Fest  
 July, 16.....31/91 & 25/85  
 upgrading class  
 June 22.....MRAC Novice and  
 June 4.....QCWA Luncheon

## Upcoming Events

93/33.....June 1, Wednesday  
 QCWA.....June 4, Saturday  
 07/67.....June 7, Tuesday  
 Ozaukee.....June 8, Wednesday  
 Racine.....June 13, Monday  
 6-MIC.....June 19, Sunday  
 CO3TUE.....June 21, Tuesday  
 MRAC.....June 23, Thursday  
 22/82.....June 23, Thursday  
 31/91.....September  
 25/85.....September

## Meeting Notices

EDITOR: Larry McCalvy WA9JMO  
 7453 W. Thurston Circle  
 Milwaukee, Wisconsin 53218

**the HAMATEUR**

## Classified Ads

Until further notice, non-commercial ads will be accepted and published FREE for ALL Newsletter readers. Ads will be published for only one (1) issue, unless you request otherwise. If you wish to rerun an ad, please advise before the closing date of the next issue. To insure the maximum

success of FOR SALE ads, all items must include the asking price. Unless otherwise noted, phone listings are local Milwaukee numbers. CLOSING DATE for ads is the 8th of the publication month. Direct AD COPY to: Don Habeck, W9AMM, 5973 Sugarbush Lane, Greendale, WI 53129.

FOR SALE: Galaxy 550A xcvr, 80-10 mtrs, ssb-cw, 550 watts pep, with power supply, Speaker, calibrator, and cw filter; \$375. Contact Jack, WB9RKF 251-0572 after 6 PM

FOR SALE: Yaesu FL-101 and FR-101S with speaker, speech processor, 2 & 6 mtr converters, fm-am-ssb filters, 10 extra crystals, excellent condx; \$800. Contact Hans, K9FZD 782-4479

FOR SALE: Drake TR-22 2-mtr scvr with 11 channels, AA-10 Amplifier, 1525 EM Micoder (a few mods); \$225. Contact Brian, WB9RZL 871-4579

WANTED: Your old newspapers would be appreciated to help support a field day group. Contact Norm, WB9PCQ, for pick-up. 764-5998

FOR SALE: Hickok Model 533 Dynamic Mutual Tube Tester; \$20. Heath Model IT-10 Transistor-Diode Checker; \$5. BC-221M Frequency Meter; \$35. DuMont Type 304A Oscilloscope with DuMont Type 185A Electronic Switch and square wave generator; \$60. Contact G.W. Pasdirtz, W9JY, 7029 N. Braeburn Ln, Glendale, WI 53209

FOR SALE: ICOM 230 2-mtr synthesized xcvr, like new; \$300. Contact Barry, WB9SFK 375-0590

FOR SALE: Elenco Model 77 SSB xmitter, 160-10 mtrs, am-cw-ssb, pr 807's final, 100 watts, about 25 yrs old; \$75. Altec Lansing compressor amplifier 438A with Collins fone patch, 17" cabinet; \$45. Contact John, W9GIL 352-6467

WANTED: External VFO for a TJ-520. Call Sus, WB9BGJ at 462-1030.

FOR SALE: Clegg FM-27A synthesized 2-mtr xcvr, 25 watts; \$150. Contact Don, K9SHJ 421-4241

FOR SALE: Swan 240 with remote vfo and Heathkit pwr supply; \$200. Contact Dan, WB9DCX 463-0384

FOR SALE: RTTY equipment (Model 15's) and parts, very reasonable! Contact Steve, WA9WYF, 647-1971 or Paul, WB9HCO, 544-0784.

FOR SALE: Powerstate Variable Transformer, input 120 volts-output 0 to 140 volts, 20 amperes, maximum kva 2.8; \$25. Contact Don, W9AMM 421-1245

FOR SALE: Standard Model 826M 2-mtr xcvr with 5 channels xtal'd, portapak; \$200. Heathkit Micoder mike; \$25. Contact Bob, WB9MLL 321-7731